



# **EPA** Response to Hurricane Harvey

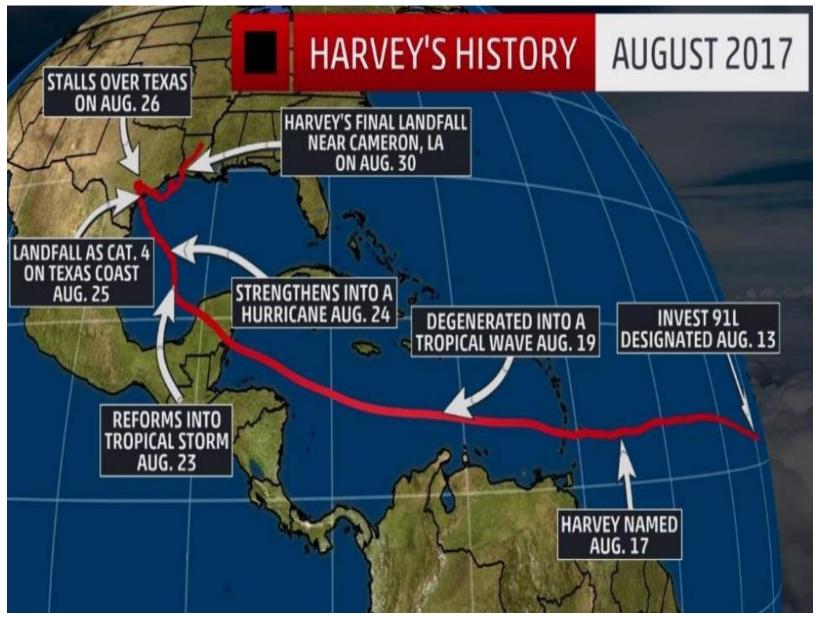
Carl Edlund
Director, Superfund Division
Region 6









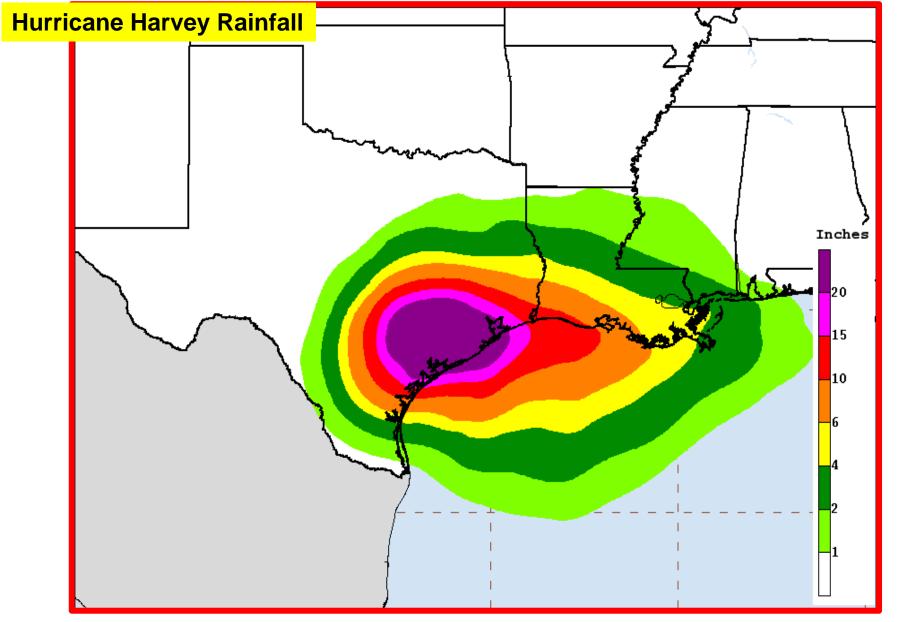












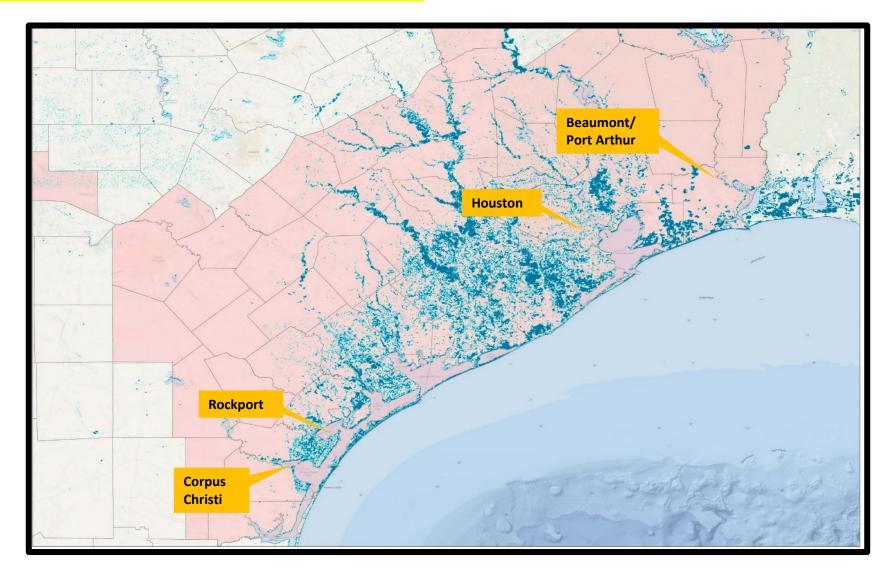








### **Hurricane Harvey Flooding**











## **UNIFIED COMMAND**









#### **RESPONSE OBJECTIVES**

- Maximize protection of public, health, and safety.
- Coordinate through the Unified Command.
- Drinking water and wastewater systems
- Orphaned containers or discharges
- Identify and address pollution targets.
- Critical infrastructure, chemical, and refining facilities
- Inform the public, stakeholders, and the media
- Deploy unique EPA assets
- Secure Superfund sites





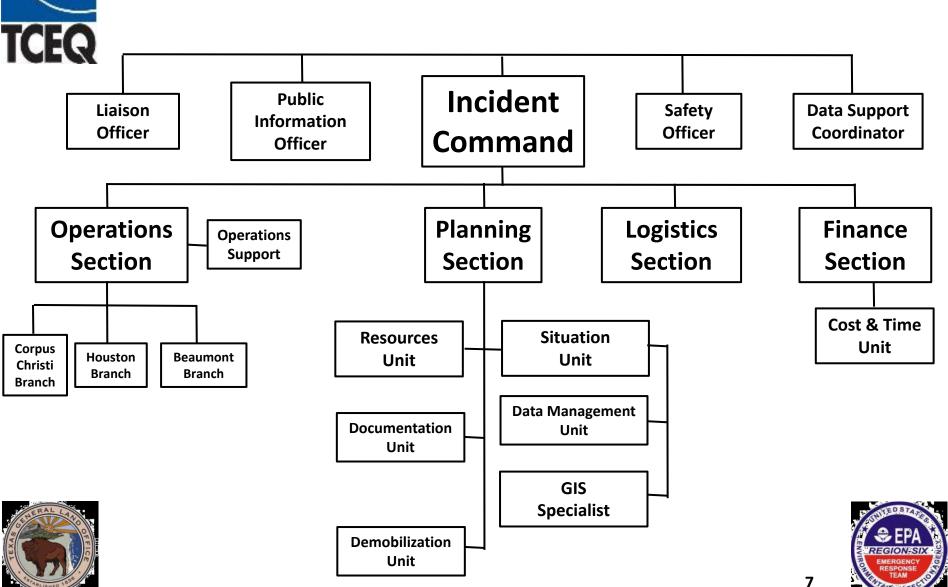




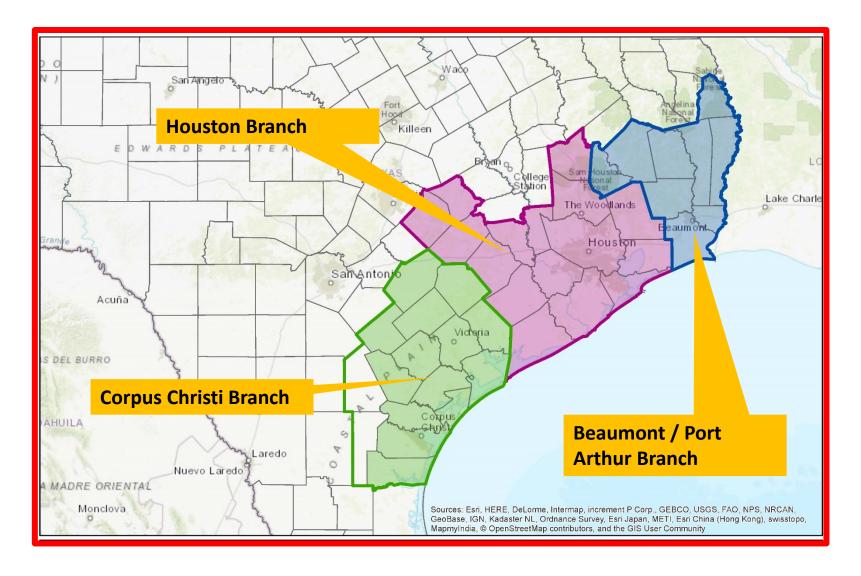


#### **Unified Command Organization Chart**





#### **EPA Resources**













# **Unified Command Mobile Command Post**













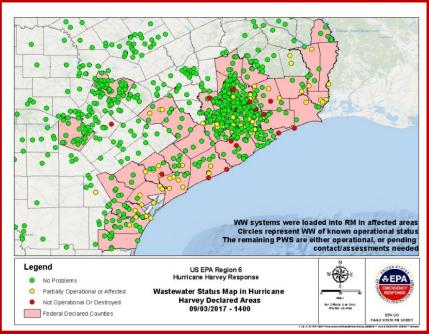




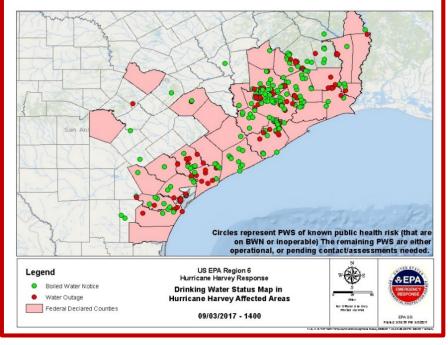


#### **Drinking Water / Waste Water Assessments**

















#### **Orphaned Container Recovery**

**Port Arthur** 

**Corpus Christi** 















#### **Support to TCEQ / Staging Area Observers**















### **Superfund Sites**













### **ASPECT Activities**

- DHS and DOE requested monitoring
- Pipelines
- Refineries
- Releases at chemical and oil facilities
- Releases and orphan containers











## **Arkema Chemical Facility, Crosby, TX**

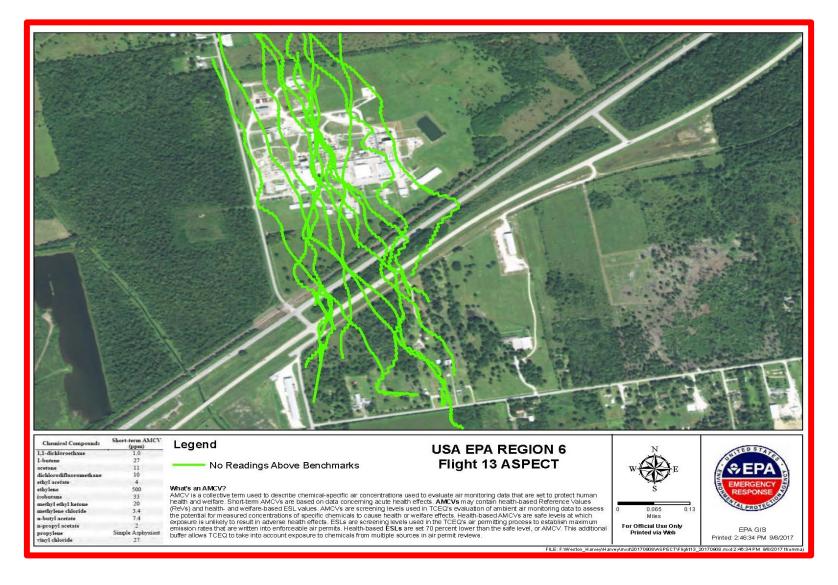




















## **TAGA Monitoring Activities**



- Refineries
- Sensitive communities
- Chemical manufacturing









#### Protecting Texas by Reducing and Preventing Pollution EPA TAGA Data for Houston & Valero BENZENE Max 20170906 Texas Commission on Environmental Quality GS Team (Mail Code 197) P.O. Box 13067 Austin, Texas 78711-3087 Date: 9/22/2017 0.15 0.3 Miles BENZENE\_MAX 0.00 - 0.27 0.28 - 0.740.75 - 1.45 1.46 - 2.522.53 - 4.39 4.40 - 7.24 7.25 - 15.98 This map was generated by the Information Resources Deviano of the Texas Commission on Environmental Quality. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not expre-serts an on-the-gramed survey and properarits only the approximate infairly location of properly boundaries. For more information concerning this way, credited the Information Resource Division at (512) 239-4800. he event is located in Harris County. The circle (green) in he left inset map represents the approximate location of the even he meet map on the right represents the location of Harris CRF 20170906BENZENE









### **PHILIS Analytical Activities**

- On- Site Releases
- Staging area sampling
- Superfund sites











# **Community Liaisons**











### Accomplishments

- 648 Hazard Evaluations completed
- 256 spills investigated
- 1,055 orphan containers recovered
- 625 drinking water assessments completed
- 441 waste water assessments completed
- Daily aerial over-flights for air monitoring
- Fuel waivers and No Action Assurance letters issued













